

FIG.2 PRIOR ART

TRACKING 1 SERVO SIGNAL LPF 7 23-2 723-1 + DIRECTION OF BEAM PROGRESS Ø 2 FIG.3 PRIOR ART INNER PERIPHERAL SIDE OUTER ↓ PERIPHERAL SIDE

FIG.4

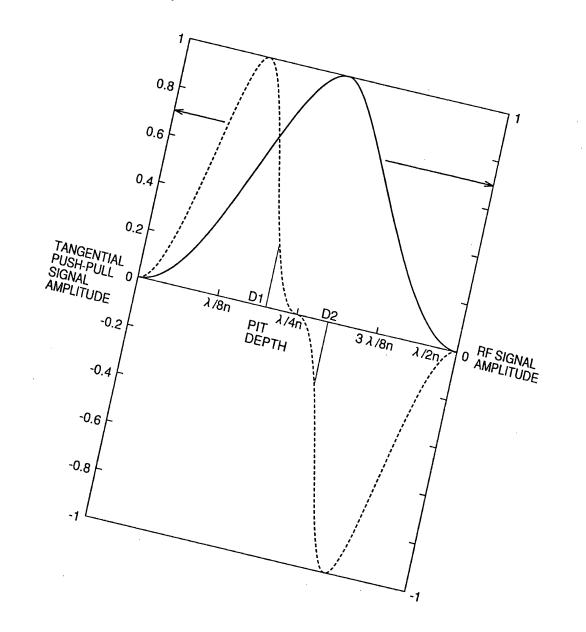


FIG.5A

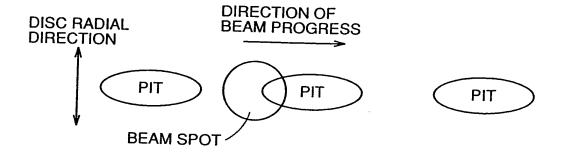
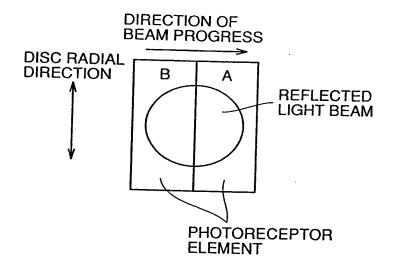
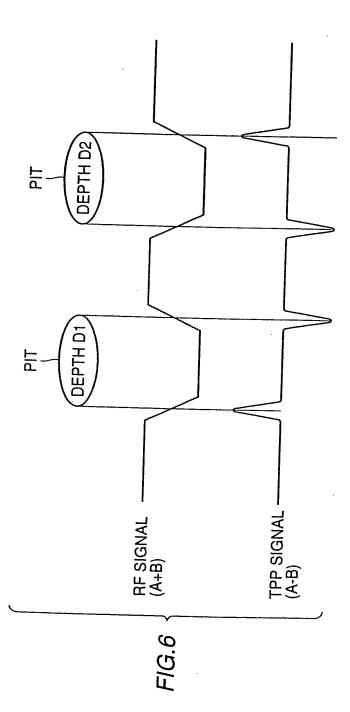


FIG.5B





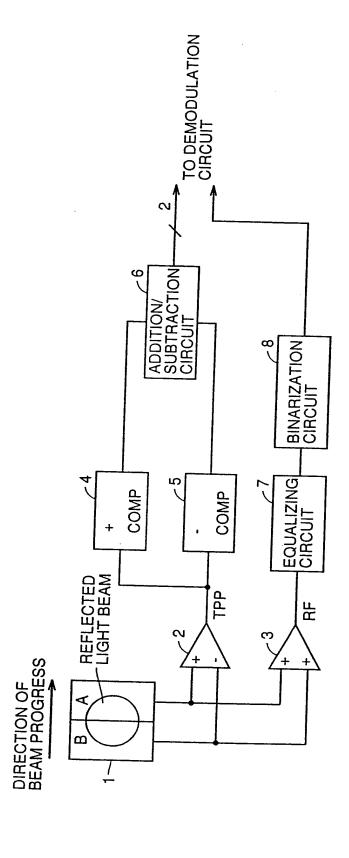
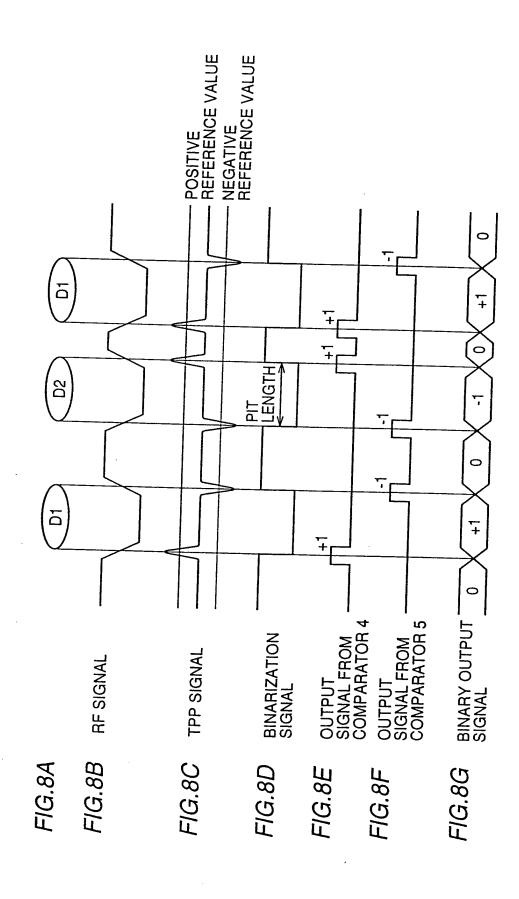
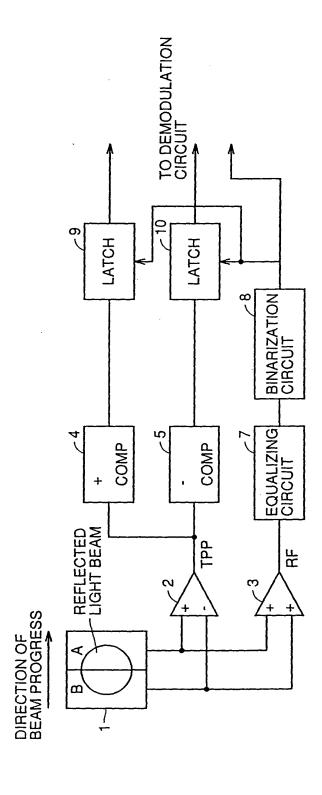


FIG.7





F1G.9

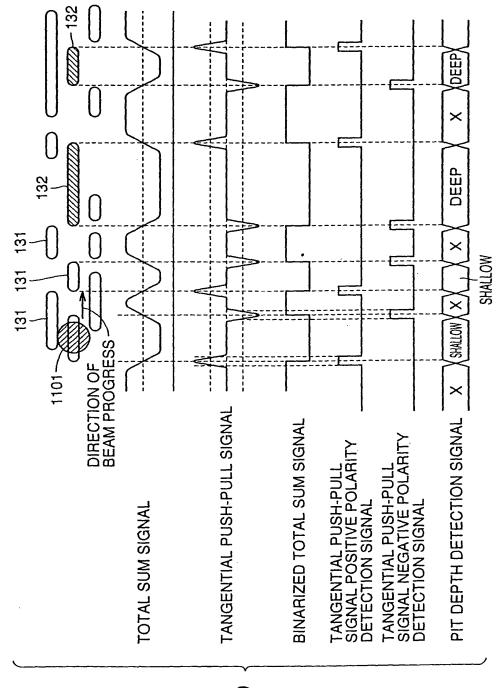
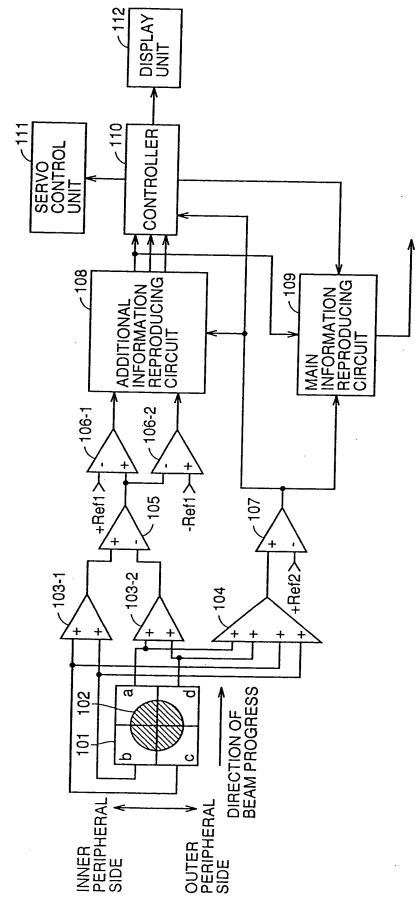


FIG. 10



F1G.1

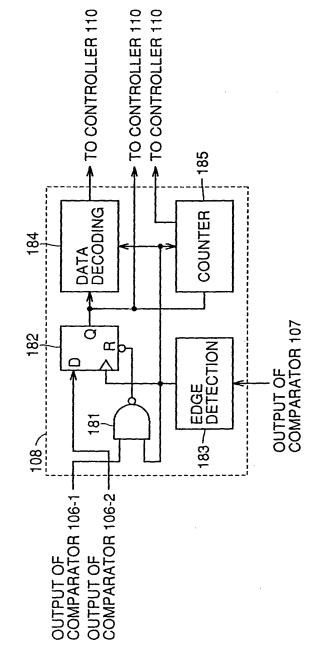


FIG. 12

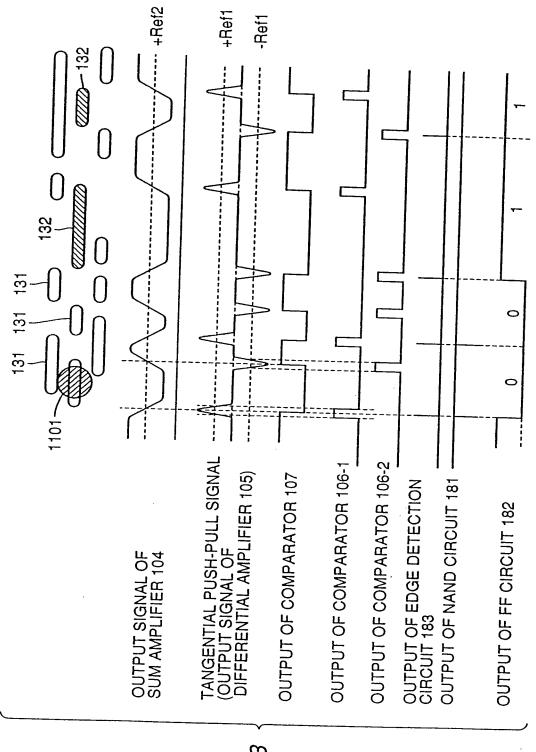


FIG. 13

TRACKING SERVO SIGNAL PULSE GENERATING-CIRCUIT PULSE GENERATING CIRCUIT 36-1 ×36-2 28-2 - 28-1 H. I PF ₹35-2 35-1 O 0 R -27 R PHASE U COMPARING α 1. J. 34-1 34-2 EDGE DETECTION .33-2 -33-1 RESOCI -Ref3 1 + /+Ref3 × 32 99 25-1 25-2 +Ref1 Y - 23-2 +Ref2> +Ref4Y -23-1 7 23-3 723-4 724 + DIRECTION OF BEAM PROGRESS Ø o 7 22. O INNER PERIPHERAL SIDE OUTER ↓ PERIPHERAL SIDE

FIG. 14

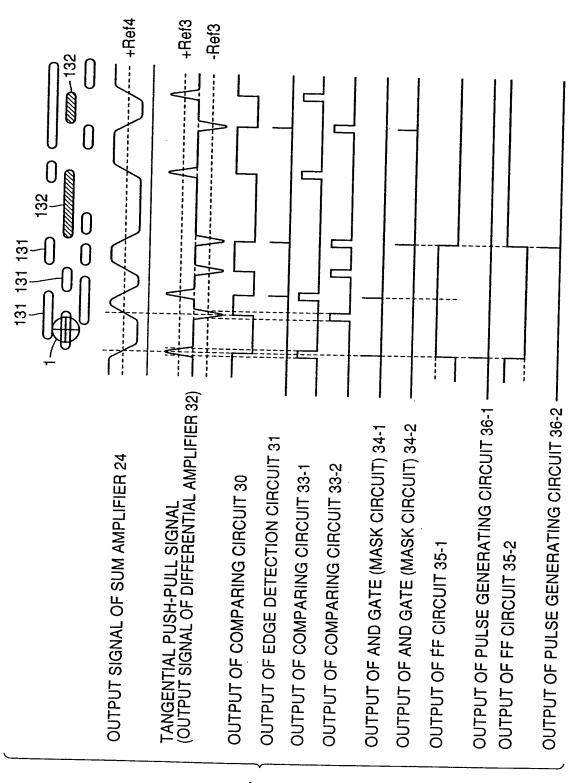
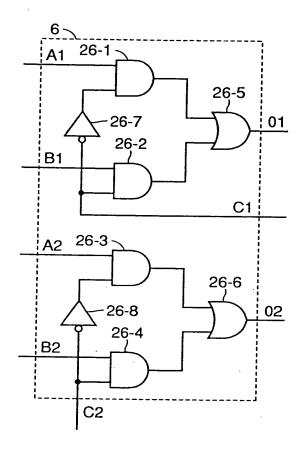


FIG. 15

FIG.16



TRACKING SERVO SIGNAL PULSE GENERATING-CIRCUIT PULSE GENERATING CIRCUIT 36-2 36-1 -28-1 LPF LPF 735-2 735-1 O -27 0 R R PHASE U COMPARING Ω α Τφ, 34-2 34-1 A2 C1 B2 0 02 O 40 EDGE DETECTION 7.26 ر ب 25 733-5 7 33-1 -Ref3 7 + /+Ref3> -32 99 25-1 25-2 +Ref2 人 +Ref4 人 +Ref1 Y -23-4 23-3 24 + + DIRECTION OF BEAM PROGRESS α 2 7 7 INNER PERIPHERAL 22a OUTER ↓ PERIPHERAL SIDE

F/G.1

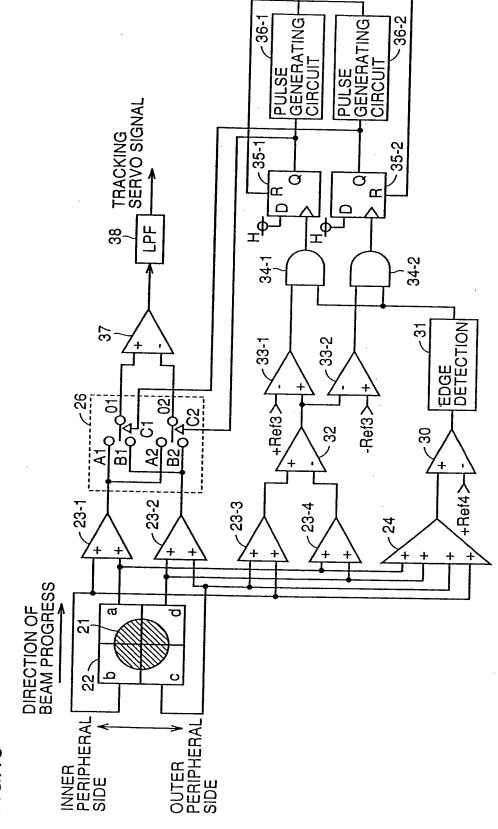


FIG. 18

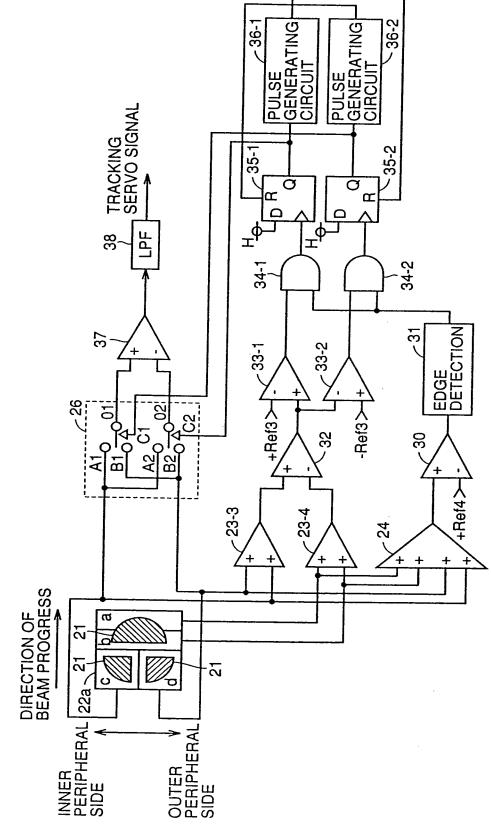


FIG. 19